



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 17, 2021

Beth Mitchell  
Authorized Agent to Premier Horticulture, Inc.  
TSG Consulting  
1150 18th Street NW, Suite 1000  
Washington, DC 20036

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling and Formulation  
Amendment – Revision to Update Strain Identification, Company Information,  
Directions for Use, and Add Alternate Brand Names. Revision to the Basic Confidential  
Statement of Formula (CSF), and Alternate CSF #1  
Product Name: PRO-MIX® MP BIOFUNGICIDE™ + MYCORRHIZAE™  
EPA Registration Number: 74267-8  
Application Date: December 26, 2019  
OPP Decision Number: 559773  
Action Case No.: 00074852

Dear Ms. Mitchell:

The amended labeling and Confidential Statements of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable.

At this time, the U.S. Environmental Protection Agency (EPA) is not requiring a change to the restricted-entry interval (REI) of 0 hour as it appears on your labeling in the Agricultural Use Requirements Box. The EPA is currently developing guidance and criteria for when it will allow a REI of less than 4 hours and might require a change to the REI for this product in the future. The alternate brand names: PRO-MIX® HPO BIOFUNGICIDE™ + MYCORRHIZAE™, and PRO-MIX® VX BIOFUNGICIDE™ + MYCORRHIZAE™ have been added to the registration, and our records have been updated accordingly. This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

Please note that the record for this product currently contains the following acceptable CSFs:

- Basic CSF dated 4/26/2021
- Alternate CSF #1 dated 12/24/2019
- Alternate CSF #2 dated 12/24/2019

Any CSFs other than those listed above are superseded/no longer valid.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Susanne Cerrelli by phone at (703) 308-8077 or via email at [cerrelli.susanne@epa.gov](mailto:cerrelli.susanne@epa.gov).

Sincerely,



Susanne Cerrelli, Risk Manager  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

- PRO-MIX® MP BIOFUNGICIDE™ + MYCORRHIZAE™ -EPA Approved Label

# PRO-MIX<sup>®</sup> MP BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup>

Alternate Brand Names (ABNs): PRO-MIX<sup>®</sup> HPO BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup>, PRO-MIX<sup>®</sup> VX BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup>

(Optional text:

*MULTI-PURPOSE GROWING MEDIUM  
HIGH POROSITY)*

*SPHAGNUM PEAT-BASED GROWING MEDIUM  
WITH BIOFUNGICIDE<sup>™</sup> FOR PROTECTED GROWING ENVIRONMENT USE (E.G. GREENHOUSES OR  
CONTAINED NURSERIES)*

(Optional text:)

*(For Organic Production) (For Use in Organic Production) (Can be used in organic production) (ALSO SUPPRESSES FUNGUS GNATS AND THRIPS)*



KEEP OUT OF REACH OF CHILDREN
<b>CAUTION</b>
See First Aid and Additional Precautionary Statements on Back Panel

**ACTIVE INGREDIENT:**

*Bacillus pumilus* strain PTB180<sup>†\*</sup> .....0.001%

**EPA Reg. No. (74267-8)**

**EPA Establishment No. 74267-CAN-001/  
002/ 003/ 004**

**OTHER INGREDIENTS:** ..... 99.999%

Total..... 100.000%

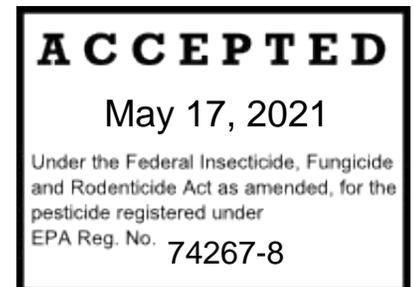
<sup>†</sup> Antecedent *Bacillus pumilus* strain GHA180

\* Contains not less than 5 X 10<sup>4</sup> viable spores per gram of medium

For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year.month.day, manufacture location (1,2,3,4 or 6), military time and product identification. For example: 2021.01.15 2 02:45 BX. Manufacturing locations are coded as:

- 1: for Rivière-du-Loup, Québec - compressed products (EPA Establishment No. **74267-CAN-001**)
- 2: for Rivière-du-Loup, Québec - loose fill products (EPA Establishment No. **74267-CAN-001**)
- 3: for Richer, Manitoba (EPA Establishment No. **74267-CAN-002**)
- 4: for Northal, Alberta (EPA Establishment No. **74267-CAN-003**)
- 6: for Rexton, New-Brunswick (EPA Establishment No. **74267-CAN-004**)

Net weight	Volume
25 lb (11.3 kg)	2.8 cu ft loose (79 L)
60 lb (27.2 kg)	3.8 cu ft compressed (107 L)
870 lb (395 kg)	55 cu ft compressed (1,557 L)
535 lb (243 kg)	60 cu ft loose (1,700 L)
625 lb (283 kg)	70 cu ft loose (1,982 L)
710 lb (322 kg)	80 cu ft loose (2,265 L)
2,200 lb (998 kg)	135 cu ft compressed (3,825 L)



**PRODUCT OF CANADA**  
**Manufactured For and Guaranteed by:**  
PREMIER HORTICULTURE INC.  
200 Kelly Road, Unit E-1  
Quakertown, PA 18951 USA

**PRODUIT DU CANADA**  
**Manufactured By:**  
PREMIER HORTICULTURE LTD.  
1 avenue Premier  
Rivière-du-Loup, Québec  
G5R 6C1 Canada

Batch Code:

Back Panel

*(Optional text:  
MULTI-PURPOSE GROWING MEDIUM  
HIGH POROSITY)*

#### FIRST AID

**If in Eyes**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for treatment advice.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For non-emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)). For emergencies, call your local poison control center at 1-800-222-1222.

#### PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals. CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Personal Protective Equipment (PPE):** Applicators (e.g., persons opening bags and/or filling potting machines) and other handlers must wear protective eyewear, a long-sleeved shirt, long pants, shoes, socks, and a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air- purifying respirator with an HE filter. (Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.).

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions are available for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATION

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards:** For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Given the pesticide active ingredient is already incorporated into a sphagnum peat-based growing medium, no restricted-entry interval (0 hours) is needed for this product.

#### PRODUCT INFORMATION

**PRO-MIX<sup>®</sup> MP BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup>** has been enriched with *Bacillus pumilus* bacteria that colonize developing root systems and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia* (optional text: and certain labeled insect pests, such as fungus gnats that attack root systems and thrips that pupate into the growing medium). As the root system develops, the bacteria grow within the rhizosphere and extend the protection throughout the growing season. In addition, the (optional text: *Glomus intraradices* or *Rhizophagus irregularis*) fungi contained in **PRO-MIX<sup>®</sup> MP BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup>** attach to and colonize root systems working in symbiosis with plants. Endomycorrhizal fungi benefit the host plant by increasing acquisition of water and nutrients (especially phosphorus, copper and zinc) by forming an extensive mycorrhizal hyphal network that attaches to the plant root system. In exchange, the plant provides soluble sugars to the fungus.

#### **(OPTIONAL TEXT (SELECT ONE OR MORE FORMULATION))**

*(PRO-MIX<sup>®</sup> MP BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup> is a peat-based growing medium formulated for the cultivation of horticultural plants in protected growing environments like glasshouses, greenhouses and contained nurseries. PRO-MIX<sup>®</sup> MP BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup> is designed to meet crop requirements for growers of herbs, vegetables, fruits and tobacco.*

*PRO-MIX<sup>®</sup> HPO BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup> is a high porosity, peat-based growing medium formulated for the cultivation of horticultural plants. This lightweight and porous growing medium provides conditions necessary to establish plant growth, especially when growing situations require a medium with high air capacity and low water retention. This formulation is excellent for use with water-sensitive crops, for propagation of plant cuttings and/or for low-light growing conditions.*

*PRO-MIX<sup>®</sup> VX BIOFUNGICIDE<sup>™</sup> + MYCORRHIZAE<sup>™</sup> is a high porosity, peat-based growing medium formulated for the cultivation of horticultural plants. This lightweight and porous growing medium provides*

conditions necessary to establish plant growth, especially when growing situations require a medium with high air capacity and low water retention.)

**USES:** Vegetable Transplants, Fruit Transplants, Herb Transplants, Tobacco Transplants, Germination of Seeds (Fruits, Herbs, Tobacco and Vegetables), Float Trays and Sub-Irrigation Systems.

**(OPTIONAL TABLE (SELECT ONE OR MORE FORMULATION))**

<b>LIST OF INGREDIENTS</b>	
<i>MP</i>	• <i>Sphagnum peat moss (60-70% by volume)</i> • <i>Coir</i> • <i>Perlite</i> • <i>Ground limestone (pH adjustment)</i> • <i>Wetting Agent</i> • <i>Biofungicide (Bacillus pumilus)</i> • <i>Mycorrhizae (Optional text: Glomus intraradices or Rhizophagus irregularis)</i>
<i>HPO</i>	• <i>Sphagnum peat moss (55-65% by volume)</i> • <i>Perlite</i> • <i>Coir</i> • <i>Ground limestone (pH adjustment)</i> • <i>Wetting Agent</i> • <i>Biofungicide (Bacillus pumilus)</i> • <i>Mycorrhizae (Optional text: Glomus intraradices or Rhizophagus irregularis)</i>
<i>VX</i>	• <i>Sphagnum peat moss (55-65% by volume)</i> • <i>Perlite</i> • <i>Coir</i> • <i>Ground limestone (pH adjustment)</i> • <i>Wetting Agent</i> • <i>Biofungicide (Bacillus pumilus)</i> • <i>Mycorrhizae (Optional text: Glomus intraradices or Rhizophagus irregularis)</i>

**(OPTIONAL TEXT FOR STATE REGULATIONS)**

**(Optional text: CONTAINS OTHER NON-PLANT FOOD INGREDIENT(S) or CONTAINS NON-PLANT FOOD INGREDIENT(S))**

*(Optional text: Glomus intraradices or Rhizophagus irregularis).....1 viable spore per gram of growing medium*

**Expiration date:** For better results from the mycorrhizae, use prior to the expiration date printed on the bag (coded yyyy.mm.dd.). After that date, the number of spores may no longer meet the minimum guarantees.

**PREPARATION**

Open package at the time of seeding, potting or transplanting. Pre-moisten medium with water until slightly moist to the touch after emptying package. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the protected growing environment. Potting benches and equipment should be located in a clean, weed-free area.

**IMPORTANT: PRO-MIX® MP BIOFUNGICIDE™ + MYCORRHIZAE™** is suitable for herbs, vegetables, fruits, and tobacco. **PRO-MIX® MP BIOFUNGICIDE™ + MYCORRHIZAE™** is for use in protected growing environments only (e.g. glasshouse or greenhouse) and not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

**FERTILIZATION**

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves; this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can ensure plants receive proper nutritional requirements.

## WATER MANAGEMENT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water ‘runs through’ to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

## APPLICATION INFORMATION

- Use PRO-MIX® MP BIOFUNGICIDE™ + MYCORRHIZAE™ “as is” from package. Pre-moisten medium with water until slightly moist to the touch after emptying package.
- Thoroughly moisten medium to “water-in” plants after transplanting and placing in the protected growing environment.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize PRO-MIX® MP BIOFUNGICIDE™ + MYCORRHIZAE™.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical plant regulator treatments can be used in combination with PRO-MIX® MP BIOFUNGICIDE™ + MYCORRHIZAE™
- Rotate product inventory to practice ‘First In – First out’. Product performance is best when used within 12 months of manufacturing date. (see manufacturing date on package: yyyy.mm.dd.)

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a dry place at ambient temperature -22 to 86° F (-30 to 30 °C).

**PESTICIDE DISPOSAL:** To avoid waste, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely remove medium from the bag. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

## QUALITY GUARANTEE

PREMIER HORTICULTURE INC. is committed to quality. If you are not satisfied with the quality of this product, PREMIER HORTICULTURE INC. guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies, liabilities, including liability for direct or consequential damages, and warranties of merchantability and fitness for a particular purpose are excluded.

*(Optional text)*



**PLEASE RECYCLE**

## THIS PRODUCT RESPECTS ALL LEGISLATION ON HEAVY METALS

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.html>.

*(Optional logo)*



SERVICES@PTHORTICULTURE.COM

PTHORTICULTURE.COM

**Manufactured For and Guaranteed By:**

PREMIER HORTICULTURE INC.

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Quakertown, PA 18951 USA

**Manufactured By:**

PREMIER HORTICULTURE LTD.

1 avenue Premier

Rivière-du-Loup, Québec

G5R 6C1 Canada

**For additional information, call:**

1 800 525-2553

**For additional information, call:**

1 800 667-5366